

Claims

1. A heat sealable polypropylene resin laminate film having three or more layers,

the laminate film comprising:

5 a heat sealable layer having a melting point of not more than 150°C as a surface layer,

a substrate layer made of a crystalline polypropylene resin, and

10 an intermediate layer between the heat sealable layer and the substrate layer,

wherein the product of the tensile modulus of elasticity in the machine direction (MD) of the film and in the direction (TD) transverse to the machine direction of the film is 3.1-6.0 (GPa)², and the heat sealing energy in each of the machine 15 direction of the film and the direction transverse to the machine direction of the film is not less than 11N·cm/15 mm when the film is sealed, such that the heat sealing strength of the film is not less than 8N/15 mm.

2. The laminate film of claim 1, wherein the thicknesses 20 of the substrate layer and the intermediate layer satisfy the following relational formula:

$$2x < y$$

wherein x is the thickness of said substrate layer and y is the thickness of the intermediate layer.

25 3. The laminate film of claim 1 or 2, wherein said intermediate layer comprises an α-olefin copolymer containing a cold xylene-soluble fraction in a proportion of not more than 3% by mass.

4. The laminate film of claim 3, wherein said α-olefin 30 copolymer is contained in the intermediate layer in a proportion of 10-70% by mass.

5. The laminate film of claim 1 or 2, wherein said intermediate layer comprises a crystalline polypropylene resin constituting the substrate layer and a resin constituting the

heat sealable layer.

6. The laminate film of claim 1 or 2, wherein the surface of said heat sealable layer has a wetting tension after water washing of not less than 31 mN/m and contains an antifog agent
5 before the water washing.

7. The laminate film of claim 1 or 2, wherein said laminate film is biaxially oriented.

8. A package comprising the laminate film of claim 1 or
2.

10 9. The laminate film of claim 3, wherein said intermediate layer comprises a crystalline polypropylene resin constituting the substrate layer and a resin constituting the heat sealable layer.

10. The laminate film of claim 4, wherein said
15 intermediate layer comprises a crystalline polypropylene resin constituting the substrate layer and a resin constituting the heat sealable layer.

11. The laminate film of claim 3, wherein the surface of said heat sealable layer has a wetting tension after water
20 washing of not less than 31 mN/m and contains an antifog agent before the water washing.

12. The laminate film of claim 3, wherein said laminate film is biaxially oriented.

13. The laminate film of claim 4, wherein the surface of
25 said heat sealable layer has a wetting tension after water washing of not less than 31 mN/m and contains an antifog agent before the water washing.

14. The laminate film of claim 4, wherein said laminate film is biaxially oriented.

30 15. A package comprising the laminate film of claim 3.

16. A package comprising the laminate film of claim 4.